Docket No.: 057-116

Express Mail Label No.: ER 746710147 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Applicat	ion of:)
	John SANTHOFF et al.	,)
Serial No.:	To be assigned	<i>)</i>)
Filed:	February 3, 2004))
For:	OPTIMIZATION OF ULTRA- WIDEBAND COMMUNICATION THROUGH A WIRE MEDIUM)))

San Diego, California

MAIL STOP PATENT APPLICATION Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir or Madam:

In accordance with 37 C.F.R. § 1.56, Applicants make the documents listed on the enclosed form PTO/SB/08 (submitted in duplicate) of record in the above-identified application. In accordance with 37 C.F.R. § 1.97, this statement is not to be construed as a representation that a search has been made, and is not a representation that the information cited is effective as prior art to the application or is material to patentability.

Copies of the U.S. patents and U.S. patent application publications listed on the enclosed

form PTO/SB/08 are not enclosed, in accordance with the waiver of the requirement of 37 C.F.R.

§ 1.98(a)(2)(i) for submitting a copy of each cited U.S. patent and U.S. patent application

publication for all U.S. national patent applications filed after June 30, 2003 that appears in the

Official Gazette Notice (Week No. 31) dated August 5, 2003 and entitled "Information

Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications

in Patent Applications Filed After June 30, 2003".

The foreign patent document listed on the enclosed form PTO/SB/08 was cited in earlier

application Serial No. 10/177,313. Therefore, in accordance with 37 C.F.R. § 1.98(d), a copy of

the foreign patent document listed on the enclosed form PTO/SB/08 is not enclosed.

It is respectfully requested that the documents listed on the enclosed form PTO/SB/08 be

(1) fully considered by the U.S. Patent and Trademark Office in the examination of the above-

identified application; and (2) printed on any patent which may issue on this application. It is

also respectfully requested that a copy of the enclosed form PTO/SB/08, as considered and

initialed by the Examiner, be returned to the undersigned with the next communication in

accordance with M.P.E.P. § 609.

This Information Disclosure Statement is filed within three months of the filing date of

the above-identified application, pursuant to 37 C.F.R. 1.97(b). Therefore, it is believed that no

fee is required in connection with this submission.

Respectfully submitted,

2-3-2004

Date

John Santhoff

1969 Kellogg Road

Carlsbad, CA 92008

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Complete if Known

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) Application Number To be assigned Filing Date February 3, 2004 First Named Inventor John Santhoff Art Unit To be assigned Examiner Name To be assigned

Sheet 1 of 2 Attorney Docket Number 057-116

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2 (f known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		^{US-} 3,728,632	04-17-1973	Gerald F. Ross	
		^{US-} 4,641,317	02-03-1987	Larry W. Fullerton	
		^{US-} 4,743,906	05-10-1998	Larry W. Fullerton	
		^{US-} 4,813,057	03-14-1989	Larry W. Fullerton	
		^{US-} 4,815,106	03-21-1989	Michael B. Propp	
		^{US-} 4,864,589	09-05-1989	Kaoru Endo	
		^{US-} 4,979,186	12-18-1990	Larry W. Fullerton	
		^{US-} 5,051,720	09-24-1991	Kitti Kittirutsuneto	
		^{US-} 5,363,108	11-08-1994	Larry W. Fullerton	
		^{US-} 5,491,463	02-13-1996	Matthew G. Sargeant	
		^{US-} 5,554,968	09-10-1996	Raymond Lee	
		^{US-} 5,677,927	10-14-1997	Larry W. Fullerton	
		^{US-} 5,687,169	11-11-1997	Larry W. Fullerton	
		^{US-} 5,729,607	03-17-1998	Anthony DeFries et al.	
		^{US-} 5,745,837	04-28-1998	Amir Michael Fuhrmann	
		^{US-} 5,744,526	06-30-1998	Michael B. Propp et al.	
		^{US-} 5,864,284	01-26-1999	Lelon Wayne Sanderson	
		^{US-} 5,937,342	08-10-1999	Paul A. Kline	
		^{US-} 5,940,387	08-17-1999	Richard Humpleman	

	FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	٦٩			
		WO 02/31986	04-18-2002	Xtremespectrum, Inc.					
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Examiner	= = =	 Date	
Signature		Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2

Compl te if Known			
Application Number	To be assigned		
Filing Date	February 3, 2004		
First Named Inventor	John Santhoff		
Art Unit	To be assigned		
Examiner Name	To be assigned		
Attorney Docket Number	057-116		

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (# known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		^{US-} 5,982,276	11-09-1999	William L. Stewart	
-		^{US-} 6,031,862	02-29-2000	Larry W. Fullerton et al.	
		^{US-} 6,040,759	03-21-2000	Lelon Wayne Sanderson	
		^{US-} 6,178,217	01-23-2001	Anthony DeFries et al.	
-		^{US-} 6,281,784	8-28-2001	Robert E. Redgate et al.	
		^{US-} 6,373,377	04-16-2002	Frank Sacca et al.	
		^{US-} 5,523,760	06-04-1996	McEwan	
		^{US-} 6,586,999	07-01-2003	Richley	
		^{US-} 2001/0011930 A1	08-09-2001	Kintis et al.	
		^{US-} 2002/0076193 A1	06-20-2002	Melick et al.	
		^{US-} 2003/0202537 A1	10-30-2003	Rogerson et al.	
		US-			

	FOREIGN PATENT DOCUMENTS							
Examiner Cite Initials* No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages				
		Country Code ^{3 -} Number ^{4 -} Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T ⁶		
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Examiner	 -	Date	
Signature		Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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